This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:** 

Claim 1 (Canceled)

Claim 2 (Previously presented): The method of claim 30, wherein the method is performed for diagnosis of pulmonary hypertension within a patient.

Claim 3 (Currently amended): The <u>method of claim 30</u>, <del>system of claim 1</del> wherein said <u>pressure sensor is a sensing device comprises of at least one</u> capacitive sensor.

Claim 4 (Currently amended): The <u>method of claim 30</u>, <del>system of claim 1</del> wherein said sensing device further comprises a battery.

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Claim 5 (Currently amended): The method system of claim 4 further comprising wireless means for recharging said battery.

Claims 6 and 7 (Canceled)

Claim 8 (Currently amended): The method of claim 30, system of <del>claim 7</del> wherein said <u>method</u> <del>system</del> further comprises <del>means for</del> calculating changes in said pulmonary artery pressure over time, dp/dt.

Claim 9 (Currently amended): The method of claim 30, further comprising system of claim 1 wherein said sensing device comprises at least one of resonant, passive, and active means for telecommunicating and/or telepowering said sensing device with a readout device that is not adapted to be implanted in the patient. with said readout device.

Claims 10 through 16 (Canceled)

Claim 17 (Previously presented): The method of claim 30, further comprising the step of placing said sensor package in said pulmonary artery Application No. 10/679,888

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using a surgical technique.

Claim 18 (Previously presented): The method of claim 30, further

comprising the step of placing said sensor package using a minimally invasive

outpatient technique.

Claim 19 (Previously presented): The method of claim 30, further

comprising the step of placing said sensor package using a catheter delivery

technique.

Claim 20 (Currently amended): The method of claim 30, system of

<del>claim 1.</del> wherein said sensor package further comprises an anchoring

mechanism.

Claim 21 (Currently amended): The method of claim 30, system of

<del>claim 20</del> wherein said sensor package is anchored to the second pulmonary

artery by the <del>anchoring mechanism comprises a</del> diameter of said sensor

package. package

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Claims 22-29 (Canceled)

Claim 30 (Currently amended): A method of delivering a hermetic sensor package to monitor pulmonary artery pressure within a patient, said sensor package having a diameter and being adapted to be implanted into and configured to block a pulmonary artery of the patient, said sensor package containing at least one sensing device, said sensing device comprising at least one pressure sensor, the method comprising: said sensor package of claim 1 comprising the step of

injecting said sensor package so as to deliver said sensor package into a first pulmonary artery, wherein blood flow through the first pulmonary artery delivers and anchors said sensor package into a second pulmonary artery with a smaller diameter than said first pulmonary artery, the second pulmonary artery being sufficiently small to prevent further movement of said sensor package and anchor said sensor package therein;

blocking the second pulmonary artery with said sensor package; and operating said sensor package to chronically monitor pulmonary artery pressure with said sensor while the blocked second pulmonary artery remains blocked by said sensor package.

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Claim 31 (Previously presented): The method of claim 30 further

comprising cell growth and encapsulation of said sensor package to stabilize

said sensor package.

Claim 32 (Currently amended): The method of claim 30, system of

<del>claim 1</del> wherein at least a portion of said sensor package is coated with one

or more layers of coatings.

Claim 33 (Currently amended): The method system of claim 32

wherein said one or more layers of coatings are formed from at least coating

material chosen from the group consisting of silicone, hydrogels, parylene,

polymer, nitrides, oxides, nitric-oxide generating materials, carbides, silicides,

titanium, and combinations thereof.

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